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APPLICATION NO.	. FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/512,109	07/21/2005	Mitsuo Nishikawa	051023-0118	4547
FOLEY AND LARDNER LLP			EXAM	INER
			BUNNER, BRIDGET E	
			ART UNIT	PAPER NUMBER
•	,		1647	
		•	MAIL DATE	DELIVERY MODE
•			07/13/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	7	Application No.	Applicant(s)			
·		10/512,109	NISHIKAWA, MITSUO			
	Office Action Summary	Examiner	Art Unit			
		Bridget E. Bunner	1647			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHI WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAnsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed on $\underline{19 \ Se}$	eptember 2005.				
	This action is FINAL . 2b)⊠ This action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims					
5)□ 6)□ 7)□ 8)⊠	Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-14 are subject to restriction and/or expressions.	vn from consideration.				
• • _	ion Papers					
,—	The specification is objected to by the Examine		Evaminar			
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
,						
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) Notice 3) Information	et(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) ter No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other: <u>Appendix A</u> .	ate			

Application/Control Number: 10/512,109

Art Unit: 1647

DETAILED ACTION

Status of Application, Amendments and/or Claims

The amendment of 21 October 2004 has been entered in full. Claims 1-13 are amended.

Claim 14 is added.

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-5, drawn to a DNA coding for a polypeptide, an expression vector, and host cell.

Group II, claim(s) 6-8 and 13-14, drawn to a polypeptide.

Group III, claim(s) 9, drawn to a monoclonal antibody which binds the polypeptide.

Group IV, claim(s) 10-12, drawn to a method for supporting hematopoietic stem cell or hematopoietic progenitor cell proliferation or survival.

2. The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

This PCT rule defines special technical features as technical features that identify a contribution which each of the claimed inventions, considered as a whole, makes over prior art. Claim 1 is anticipated by prior art. Warren et al. (WO/0260942) teach an isolated DNA sequence that encodes a polypeptide that is 99.5% identical to SEQ ID NO: 48 of the instant application (see sequence alignment attached to the instant Office Action as Appendix A; see SEQ ID NO: 28 of Warren et al.). Therefore, claim 1 lacks a special technical feature and cannot share one with the other claims.

Art Unit: 1647

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully Application/Control Number: 10/512,109

Art Unit: 1647

examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Page 4

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Art Unit: 1647

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bridget E. Bunner whose telephone number is (571) 272-0881. The examiner can normally be reached on 8:30-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Nickol can be reached on (571) 272-0835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BEB Art Unit 1647 06 July 2007 Endget & Burner

PRIDGET BUNNER

DITENT EXAMINER

Appendix A

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<!--StartFragment-->RESULT 6
ABS58379
ID
     ABS58379 standard; DNA; 1125 BP.
XX
AC
     ABS58379;
XX
DΤ
     05-NOV-2002 (first entry)
XX
DE
     Protein modification and maintenance molecule #12.
XX
KW
     Protein modification and maintenance molecule; gastrointestinal disorder;
KW
     dysphagia; esophageal spasm; gastritis; anorexia; nausea; hypertension;
KW
     cardiovascular disorder; atherosclerosis; vasculitis; aneurysm; allergy;
KW
     ischaemic heart disease; autoimmune disorder; inflammatory disorder;
KW
     acquired immunodeficiency syndrome; AIDS; ankylosing spondylitis; cancer;
KW
     anaemia; amyloidosis; cell proliferative; arteriosclerotic bursitis;
KW
     cirrhosis; developmental disorder; renal tubular acidosis; anaemia;
KW
     bone resorption; epilepsy; epithelial disorder; keratosis pilaris;
     allergic contact dermatitis; insect bite; keloid; dermatofibroma; eczema;
     neurological disorder; stroke; cerebral neoplasm; Alzheimer's disease;
KW
KW
     Huntington's disease; dementia; reproductive disorder; infertility;
KW
     endometriosis; gynecomastia; ectopic pregnancy; gene therapy; gene; ss.
XX
os
     Homo sapiens.
XX
     WO200260942-A2.
PN
XX
     08-AUG-2002.
PD
XX
PF
     30-JAN-2002; 2002WO-US002813.
XX
PR
     31-JAN-2001; 2001US-0265705P.
     05-FEB-2001; 2001US-0266762P.
PR
PR
     16-FEB-2001; 2001US-0269581P.
     23-FEB-2001; 2001US-0271198P.
     01-MAR-2001; 2001US-0272813P.
PR
PR
     13-MAR-2001; 2001US-0275586P.
PR
     23-MAR-2001; 2001US-0278505P.
     30-MAR-2001; 2001US-0280539P.
PR
XX
     (INCY-) INCYTE GENOMICS INC.
PA
XX
     Warren BA.
                 Honchell CD, Lu Y, Walia NK, Burford N, Delegeane AM;
     Gandhi AR, Baughn MR, Griffin JA, Gietzen KJ, Lu DAM, Ison CH;
PΙ
     Ramkumar J, Tang TY, Lal PG, Borowski ML, Duggan BM, Hafalia AJA;
     Arvizu C,
PΙ
                Thangavelu K, Yao MG, Elliott VS, Ding L, Yue H, Lee S;
     Swarnakar A, Tran UK, Xu Y;
PΤ
XX
DR
     WPI; 2002-608499/65.
DR
     P-PSDB; ABG76508.
XX
PT
     New protein modification and maintenance molecules useful for treating or
PT
     preventing gastrointestinal, cardiovascular, autoimmune/inflammatory,
     cell proliferative, developmental, neurological and reproductive
PT
     disorders.
XX
     Claim 5; Page 168-169; 172pp; English.
XX
CC
     The invention describes an isolated human polypeptide (I), a naturally
     occurring amino acid sequence at least 90 % identical to the protein, or
CC
CC
     a biologically active fragment or an immunogenic fragment of the protein.
CC
     The protein modification and maintenance molecules are useful in the
     diagnosis, treatment, and prevention of gastrointestinal (e.g. dysphagia,
CC
     esophageal spasm, gastritis, anorexia or nausea), cardiovascular (e.g.
     atherosclerosis, hypertension, vasculitis, aneurysms, or ischaemic heart
CC
     disease), autoimmune/inflammatory (e.g. acquired immunodeficiency
CC
     syndrome (AIDS), allergies, ankylosing spondylitis, anaemia or
     amyloidosis), cell proliferative (e.g. cancers, arteriosclerotic, bursitis, or cirrhosis), developmental (e.g. renal tubular acidosis,
CC
CC
     anaemia, bone resorption, or epilepsy), epithelial (e.g. allergic contact
CC
     dermatitis, keratosis pilaris, insect bites, keloid, dermatofibroma or
     eczema), neurological (e.g. stroke, cerebral neoplasms, Alzheimer's
CC
CC
     disease, Huntington's disease or dementia), and reproductive disorders
     (e.g. infertility, endometriosis, gynecomastia or ectopic pregnancy).
CC
     These may also be used in assessing the effects of exogenous compounds on
     the expression of nucleic acid and amino acid sequences of protein
```

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CC
   modification and maintenance molecules. Polynucleotides are useful in
CC
   somatic and germline gene therapy. This sequence encodes a protein
CC
   modification and maintenance molecule described in the invention
XX
SO
    Sequence 1125 BP; 296 A; 274 C; 311 G; 244 T; 0 U; 0 Other;
Alignment Scores:
Pred. No.:
                 7.03e-109
                            Length:
                                       1125
Score:
                 1374.00
                            Matches:
                                       242
Percent Similarity:
                 99.6%
                            Conservative:
                                       0
Best Local Similarity:
                 99.6%
                            Mismatches:
                                       1
                 99.5%
Ouerv Match:
                            Indels:
                                       0
US-10-512-109-48 (1-243) x ABS58379 (1-1125)
Qv
         1 MetGlnPheArgLeuPheSerPheAlaLeuIleIleLeuAsnCysMetAspTyrSerHis 20
          311 ATGCAGTTTCGCCTTTTCTCCTTTGCCCTCATCATTCTGAACTGCATGGATTACAGCCAC 370
Qy
        21 CysGlnGlyAsnArgTrpArgArgSerLysArgAlaSerTyrValSerAsnProIleCys 40
          Db
       371 TGCCAAGGCAACCGATGGAGACGCAGTAAGCGAGCTAGTTATGTATCAAATCCCATTTGC 430
Qy
        41 LysGlyCysLeuSerCysSerLysAspAsnGlyCysSerArgCysGlnGlnLysLeuPhe 60
          Db
       431 AAGGGTTGTTTGTCTTGTTCAAAGGACAATGGGTGTAGCCGATGTCAACAGAAGTTGTTC 490
        61 PhePheLeuArgArgGluGlyMetArgGlnTyrGlyGluCysLeuHisSerCysProSer 80
Qy
          Db
          TTCTTCCTTCGAAGAGGGATGCGCCAGTATGGAGAGTGCCTGCATTCCTGCCCATCC 550
Qу
        81 GlyTyrTyrGlyHisArgAlaProAspMetAsnArgCysAlaArgCysArgIleGluAsn 100
          Db
       551 GGGTACTATGGACACCGAGCCCCAGATATGAACAGATGTGCAAGATGCAGAATAGAAAAC 610
Qy
       101 CysAspSerCysPheSerLysAspPheCysThrLysCysLysValGlyPheTyrLeuHis 120
          Db
       611 TGTGATTCTTGCTTTAGCAAAGACTTTTGTACCAAGTGCAAAGTAGGCTTTTATTTGCAT 670
Qy
       121 ArgGlyArgCysPheAspGluCysProAspGlyPheAlaProLeuGluGluThrMetGlu 140
          Db
       671 AGAGGCCGTTGCTTTGATGAATGTCCAGATGGTTTTGCACCATTAGAAGAAACCATGGAA 730
       141 CysValGluGlyCysGluValGlyHisTrpSerGluTrpGlyThrCysSerArgAsnAsn 160
Qy
          731 TGTGTGGAAGGATGTGAAGTTGGTCATTGGAGCGAATGGGGGAACTTGTAGCAGAAATAAT 790
Db
Qу
       161 ArgThrCysGlyPheLysTrpGlyLeuGluThrArgThrArgGlnIleValLysLysPro 180
          791 CGCACATGTGGATTTAAATGGGGTCTGGAAACCAGAACACGGCAAATTGTTAAAAAGCCA 850
Db
Qу
       181 ValLysAspThrIleLeuCysProThrIleAlaGluSerArgArgCysLysMetThrMet 200
          Db
       851 GTGAAAGACACAATACCGTGTCCAACCATTGCTGAATCCAGGAGATGCAAGATGACAATG 910
Qy
       201 ArgHisCysProGlyGlyLysArgThrProLysAlaLysGluLysArgAsnLysLysLys 220
          Db
       221 LysArgLysLeuIleGluArgAlaGlnGluGlnHisSerValPheLeuAlaThrAspArg 240
Qy
          Db
       241 AlaAsnGln 243
Qy
          111111111
      1031 GCTAACCAA 1039
<!--EndFragment-->
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Appendix H (cont.)